

SOT-23 Plastic-Encapsulate MOSFETS

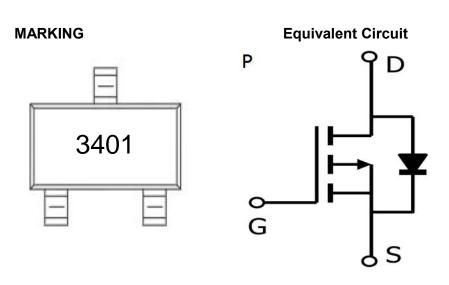
P-Channel Enhancement Mode Field Effect Transistor

FEATURES

- Lead free product is acquired
- Surface mount package

APPLICATION

Load Switch and in PWM applications





Maximum ratings (T_a=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Voltage	V _{GS}	±12	V
Continuous Drain Current	I _D	-4.2	Α
Power Dissipation	P _D	350	mW
Thermal Resistance from Junction to Ambient (t<5s)	$R_{\theta JA}$	357	°C/W
Junction Temperature	TJ	150	°C
Storage Temperature	T _{STG}	-55~+150	$^{\circ}$

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Parameter	Symbol	Test Condition	Min	Тур	Max	Unit		
Off characteristics			•	'	'	•		
Drain-source breakdown voltage	V(BR)DSS	V _{GS} = 0V, I _D =-250µA	-30			V		
Zero gate voltage drain current	IDSS	V _{DS} =-24V,V _{GS} = 0V			-1	μΑ		
Gate-source leakage current	Igss	V _{GS} =±12V, V _{DS} = 0V			±100	nA		
On characteristics				•	•			
Drain-source on-resistance (note 1)	RDS(on)	V _{GS} =-10V, I _D =-4.2A		50	65	mΩ		
		V _{GS} =-4.5V, I _D =-4A		60	75	mΩ		
		V _{GS} =-2.5V,I _D =-1A		75	90	mΩ		
Forward tranconductance (note 1)	g FS	V _{DS} =-5V, I _D =-5A	7			S		
Gate threshold voltage	VGS(th)	V _{DS} =V _{GS} , I _D =-250μA	-0.7	-0.9	-1.3	V		
Dynamic characteristics (note 2))			•	•			
Input capacitance	Ciss			954		pF		
Output capacitance	Coss	V _{DS} =-15V,V _{GS} =0V,f =1MHz		115		pF		
Reverse transfer capacitance	Crss			77		pF		
Switching characteristics (note 2	2)							
Turn-on delay time	td(on)				6.3	ns		
Turn-on rise time	tr	V _{GS} =-10V,V _{DS} =-15V,			3.2	ns		
Turn-off delay time	td(off)	R_L =3.6 Ω , R_{GEN} =6 Ω			38.2	ns		
Turn-off fall Time	t f				12	ns		
Drain-source diode characteristic	s and maxi	mum ratings	·	•	•			
Diode forward voltage (note 1)	V _{SD}	I _S =-1A,V _{GS} =0V			-1	V		

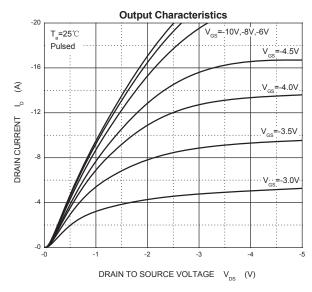
Note

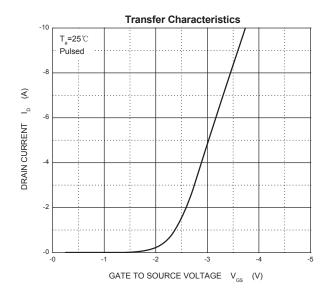
1. Pulse Test : Pulse width≤300µs, duty cycle≤2%.

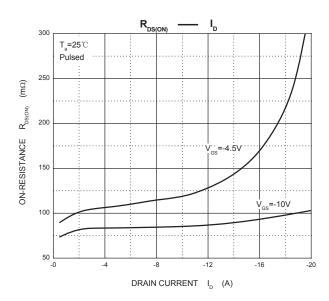
2. These parameters have no way to verify.

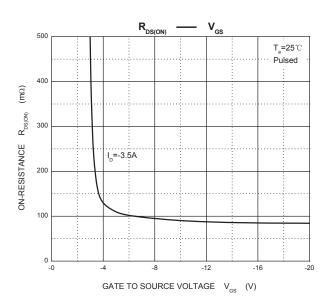


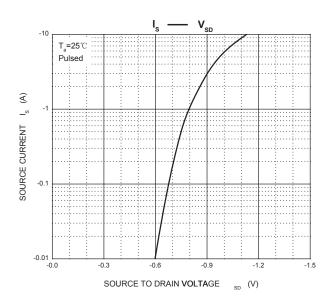
Typical Characteristics









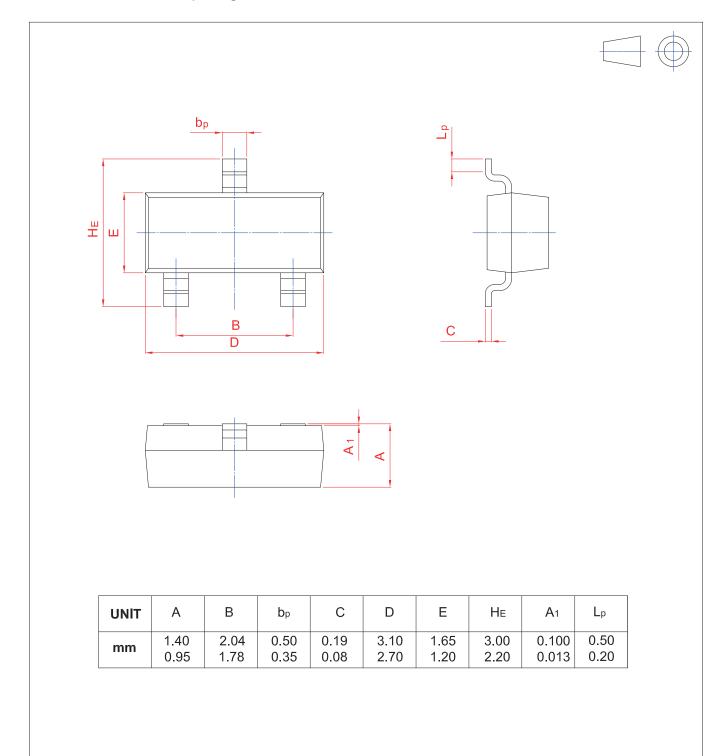




PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



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